

where Tennessee, North Carolina, and Georgia interlock and runs northward through Eastern Tennessee and Western N. Carolina. Here are discovered many forms from the north, having found in the elevations of the mountains compensation for a more southern latitude, no fewer than 65 such species being noted in this supplement. Speaking of the northerners we remark the occurrence of *Sedum Rhodiola* in the Mts. of N. C., which was found years ago clinging to a cool cliff near Easton, Penn., and taken as an example of a stranded glacial visitor. *Asplenium ebenoides*, too, has been found in shady ravines in central Alabama, and *Erythronium albidum* upon the very summit of Roan Mountain. The Mississippi river has also kept up a movement of species southward and its influence is very noticeable in glancing over this supplement. Naturally the West has not contributed so many forms as either the South or North, for the barriers in that direction are greater. We note, however, about 25 species which may be considered to have come from the West. These figures of course only apply to the supplement, and in a study of the original Manual it will be seen that this composite flora is tinged more from the north than from the south on account of the greater ease of communication in that direction; while the western forms still remain in the background. Some 15 species are published here for the first time, 10 of them bearing Dr. Chapman's name as author, and 12 of them from Florida. They are an *Alsine*, *Polygala*, *Petalostemon*, *Ludwigia*, *Pinguicula*, two *Euphorbias*, *Croton*, *Tillandsia*, *Xyris*, *Cyperus*, *Rhynchospora*, two *Paspalums*, and an *Andropogon*. Two orders for the first time find place in our Flora, namely, *Casuarineæ* and *Piperaceæ*, containing together 3 species, all from Florida.

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- VORCE, C. M.—The Detection of Adulteration in Food (Mustard, with plate), *Am. Mo. Mic. Jour.* IV, p. 24.
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